

©Derwent Information

Calcined hydrotalcite(s) - used as catalysts for ethoxylation or propoxylation of ester(s) of opt. hydroxy-substd. fatty acids and mono-alkanol(s) or poly:ol(s)

Patent Number: DE3914131

International patents classification: C07C-067/29 C07C-069/28 C07C-069/30 B01J-021/10 B01J-027/236 C07C-069/00 C07C-069/24 C07C-069/52 C11C-003/10 C07B-

• Abstract

DE3914131 A Calcined hydrotalcites (I) are used as catalysts for the ethoxylation and propoxylation of esters of opt. OH-substd. 8-22C fatty acids (II) and 1-22C mono-alkanols and of full or partial esters of (II) and 2-12C polyols contg. 2-6 OH gps.

Pref. esters are 1-4C alkyl esters of satd. or unsatd. fatty acids or glycerides of opt. monohydroxy-substd, satd. or unsatd. fatty acids; before calcination, (1) has the formula MgxA1(OH)y(CO3)z.nH20 (with x = 1-5 pref. 1.8-31]; y = above z; (y + 0.5z) = 2x + 3 and n = 0-10); (1) is calcined at 400-600 deg.C; amt. of (1) used is 0.1-2 wt.% w.r.t. final alkoxylation prod.

ADVANTAGE - (1) enable prodn. of high yields of polyalkoxylation prods. with a short reaction time, and give a narrower product bandwidth or homologue distribution than prior-art NaOMe catalysts; (1) are easily incorporated into the reaction mixt. and can be removed easily after the reaction or left in)situ during subsequent stages. (Dwg.0/0)

EP-474644 B The use of a calcined hydrotalcite as catalyst for the ethoxylation or propoxylation of fatty acid esters selected from the group formed by esters of optionally hydroxy-substituted fatty acids having 8 to 22 carbon atoms with monoalkanols having 1 to 22 carbon atoms, and by partial esters and full esters of optionally hydroxy-substituted fatty acids having 8 to 22 carbon atoms with polyols having 2 to 12 carbon atoms and 2 to 6 hydroxyl groups.

• Publication data :

Patent Family: DE3914131 A 19901031 DW1990-45 * AP:

1989DE-3914131 19890428

WO9013533 A 19901115 DW1990-48 DSNW:

AU BR CA JP KR NO US DSRW: AT BE CH DE DK ES FR GB IT LU NL SE

PT-93911 A 19901120 DW1990-50

AU9054226 A 19901129 DW1991-09 ZA9003256 A 19910130 DW1991-10 AP: 1990ZA-0003256

19900430

EP-474644 A 19920318 DW1992-12 22p AP: 1990EP-0906195

19900419 DSR: DE FR IT

JP04505449 W 19920924 DW1992-45 C07C-069/30 5p FD: Based on WO9013533 AP: 1990JP-0505978 19900419; 1990WO-

EP00630 19900419

EP-474644 B1 19940928 DW1994-37 C07C-067/29 Ger 7p FD: Based on WO9013533 AP: 1990EP-0906195 19900419; 1990WO-

EP00630 19900419 DSR: DE FR IT

DE59007350 G 19941103 DW1994-43 C07C-067/29 FD: Based on EP-474644; Based on WO9013533 AP: 1990DE-0507350 19900419; 1990EP-0906195 19900419; 1990WO-EP00630

19900419

JP2636079 B2 19970730 DW1997-35 C07C-069/28 4p FD: Previous Publ. JP4505449; Based on WO9013533 AP: 1990JP-

0505978 19900419; 1990WO-EP00630 19900419

Priority nº: 1989DE-3914131 19890428

Covered countries: 21 Publications count: 10

Cited patents: AU-234177; CA-653569; JP54160529;

SU1145047; US4157923; EP-339426; FR2251542; JP56036431

01Jnl.Ref

• <u>Accession codes</u> : <u>Accession Nº</u> : 1990-336011 [45]

Sec. Acc. n° CP1 : C1990-145822

• <u>Derwent codes</u>: <u>Manual code</u>: CPI: D10-B02 E10-E04 E34-B E34-C J04-E04

Derwent Classes : D23 E17 J04

• Patentee & Inventor(s):

Patent assignee: (HENK) HENKEL KGAA

Inventor(s): BEHLER A; FRIEDRICH K; HERRMANN K;

RATHS HC; RATHS H

• <u>Update codes</u>:

<u>Basic update code</u>: 1990-45;

<u>Equiv. update code</u>: 1990-48; 1990-50;

1991-09; 1991-10; 1992-12; 1992-45; 1994-43; 1997-35